

LIST OF CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

1. (Currently Amended) A method for reconfiguring a communication system, comprising the steps of:

receiving, from a mobile station, a plurality of mobile station capabilities
~~capability information including a plurality of the mobile station's capabilities~~;
and

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selecting one of a plurality of transmit configurations using at least one
of the plurality of mobile station capability information capabilities received.

2. (Currently Amended) The method of claim [[1]] 21 further comprising:

receiving information on mobility of the mobile station; and wherein,
the selecting step selects one of the plurality of transmit configurations
using at least one of the plurality of mobile station capability information
capabilities, channel quality information, and the information on the mobility
of the mobile station.

3. (Canceled)

4. (Currently Amended) The method of claim 21 ~~1~~ further comprising:

~~receiving information on carrier to noise ratio of a communication channel; and wherein,~~

~~the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and wherein, the channel quality information includes information on [[the]] a carrier to noise ratio of [[the]] a communication channel.~~

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SCB
5. (Currently Amended) The method of claim 21 ~~+ further comprising:~~

~~receiving information on a signal to noise ratio of a communication channel; and wherein,~~

~~the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and wherein, the channel quality information includes information on [[the]] a signal to noise ratio of [[the]] a communication channel.~~

6. (Currently Amended) The method of claim 21 ~~+ further comprising:~~

~~receiving information on an error rate; and wherein,~~

~~the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and wherein, the channel quality information includes information on [[the]] an error rate.~~

7. (Currently Amended) The method of claim 21 [[1]], wherein the step of selecting comprises selecting a single antenna transmit configuration.

8. (Currently Amended) The method of claim 21 [[1]], wherein the step of selecting comprises selecting a selection transmit diversity transmit configuration.

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9. (Currently Amended) The method of claim 21 [[1]], wherein the step of selecting comprises selecting a space time spreading transmit configuration.

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10. (Currently Amended) The method of claim 21 [[1]], wherein the step of selecting comprises selecting a multi-output and multi-input transmit configuration.

11. (Currently Amended) The method of claim 21 [[1]], wherein the step of selecting comprises selecting a configuration that selects one of a plurality of transmit antennas.

12. (Currently Amended) The method of claim 21 [[1]], wherein the step of selecting comprises selecting a configuration that transmits using a plurality of transmit antennas.

13. (Original) The method of claim 12, wherein the step of selecting comprises selecting a configuration that transmits using a plurality of transmit antennas, where each antenna uses a different orthogonal code.

Sub
14. (Original) The method of claim 13, wherein the step of selecting comprises selecting a configuration that transmits using a plurality of transmit antennas, where each antenna uses a different Walsh code.

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15. (Currently Amended) A method for reconfiguring a communication system, comprising the steps of:

receiving, from a mobile station, ~~information on~~ mobility information of the mobile station and a plurality of transmit configurations;

selecting at least one of [[a]] the plurality of transmit configurations received using the mobility information received.

16. (Currently Amended) A method for reconfiguring a communication system, comprising the steps of:

sending, from a mobile station, a plurality of mobile station capabilities ~~capability information including a plurality of the mobile station's capabilities~~;
and

~~receiving, by the mobile station, a selected configuration information indicating a transmit configuration of a base station that is based on at least one of the mobile station capabilities sent.~~

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B | 17. (Currently Amended) The method of claim [[16]] 24, further comprising:

sending, from the mobile station, information on mobility information of the mobile station and wherein,

the receiving, by the mobile station, includes receiving the selected transmit configuration that is based on the channel quality information sent, the mobility information sent, and at least one of the mobile station capabilities sent.

18. (Currently Amended) A method for reconfiguring a communication system, comprising the steps of:

sending, from a mobile station, information on the mobility information of the mobile station; and

receiving, by the mobile station, a selected transmit configuration information indicating a transmit configuration of a base station.

19. (Currently Amended) The method of claim [[1]] 21 further comprising:

communicating the selected transmit configuration to the mobile device station over a control channel.

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20. (Previously Presented) The method of claim 19 wherein, the control channel is at least one of a paging channel and synchronization channel.

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21. (New) The method of claim 1 further comprising:
receiving channel quality information and wherein,
the selecting step includes selecting one of the plurality of transmit configurations using the channel quality information received and at least one of the plurality of mobile station capabilities received.

22. (New) The method of claim 21 wherein, the plurality of mobile station capabilities includes a plurality of transmit configurations supported by the mobile station.

23. (New) The method of claim 15 further comprising:
receiving channel quality information and wherein,
the selecting step includes selecting one of a plurality of transmit configurations received using the mobility information received and the channel quality information received.

24. (New) The method of claim 16 further comprising:
sending, from the mobile station, channel quality information and

wherein,

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the receiving, by the mobile station, includes receiving a selected
transmit configuration that is based on the channel quality information sent
and at least one of the plurality of mobile station capabilities sent.

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25. (New) The method of claim 18 further comprising:
sending, from the mobile station, channel quality information and

wherein,

the receiving, by the mobile station, includes receiving the selected
transmit configuration based on the mobility information sent and the channel
quality information sent.

26. (New) A method for reconfiguring a communication system,
comprising the steps of:

receiving, from a mobile station, channel quality information and a
plurality of transmit configurations supported by the mobile station;

selecting one of the plurality of transmit configurations received using
the channel quality information received.

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27. (New) The method of claim 26 further comprising transmitting using the selected one of the plurality of transmit configurations.

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28. (New) A method for reconfiguring a communication system, comprising the steps of:

sending, from a mobile station, a plurality of transmit configurations supported by the mobile station; and
receiving, by the mobile station, a selected transmit configuration that is based on at least one of the plurality of transmit configurations sent.

29. (New) The method of claim 28 further comprising receiving, by the mobile station, transmissions using the selected transmit configuration.
